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DEPARTMENT OF COMMERCE  
BUREAU OF THE CENSUS  
WASHINGTON

FOURTEENTH CENSUS OF THE UNITED STATES  
MANUFACTURES: 1919

CAST-IRON PIPE

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## EXPLANATION OF TERMS.

**Scope of census.**—Census statistics of manufactures are compiled primarily for the purpose of showing the absolute and relative magnitude of the different branches of industry covered and their growth or decline. Incidentally, the effort is made to present data throwing light upon character of ownership, size of establishments, and similar subjects. When use is made of the statistics for these purposes it is imperative that due attention be given to their limitations, particularly in connection with any attempt to derive from them figures purporting to show average wages, cost of production, or profits.

The census did not cover establishments which were idle during the entire year or for which products were valued at less than \$500, or the manufacturing done in educational, eleemosynary, and penal institutions.

**Period covered.**—The returns relate to the calendar year 1919, or the business year which corresponded most nearly to that calendar year, and cover a year's operations, except for establishments which began or discontinued business during the year.

**The establishment.**—As a rule, the term "establishment" represents a single plant or factory, but in some cases it represents two or more plants which were operated under a common ownership or for which one set of books of account was kept. If, however, the plants constituting an establishment as thus defined were not all located within the same city, county, or State, separate reports were secured in order that the figures for each plant might be included in the statistics for the city, county, or State in which it was located. In some instances separate reports were secured for different industries carried on in the same establishment.

**Classification by industries.**—The establishments were assigned to the several classes of industries according to their products of chief value. The products reported for a given industry may thus, on the one hand, include minor products different from those covered by the class designation, and, on the other hand, may not represent the total product covered by this designation, because some products of this class may be made in establishments in which it is not the product of chief value.

**Influence of increased prices.**—In comparing figures for cost of materials, value of products, and value added by manufacture in 1919 with the corresponding figures for earlier censuses, account should be taken of the general increase in the prices of commodities during recent years. To the extent to which this factor has been influential the figures fail to afford an exact measure of the increase in the volume of business.

**Persons engaged in the industry.**—The following general classes of persons engaged in the manufacturing industries were distinguished: (1) Proprietors and firm members, (2) salaried officers of corporations, (3) superintendents and managers, (4) clerks (including other subordinate salaried employees), and (5) wage earners.

The number of persons engaged in each industry, segregated by sex, and, in the case of wage earners, also by age (whether under 16 or 16 and over), was reported for a single representative day. The 15th of December was selected as representing for most industries normal conditions of employment, but where this date did not portray such conditions, an earlier date was requested.

In the case of employees other than wage earners the number thus reported for the representative date has been treated as equivalent to the average for the year, since the number of employees of this class does not ordinarily vary much from month to month. In the case of wage earners the average has been obtained in the manner explained in the next paragraph.

In addition to the more detailed report by sex and age of the number of wage earners on the representative date, a report was obtained of the number employed on the 15th of each month, by sex, without distinction of age. From these figures the average number of wage earners for the year has been calculated by dividing the sum of the numbers reported for the several months by 12. The importance of the industry as an employer of labor is believed to be more accurately measured by this average than by the number employed at any one time or on a given day.

The number of wage earners reported for the representative day, though given in certain tables for each separate industry, is not totaled for all industries combined, because in view of the variations of date, such a total is not believed to be significant. It would involve more or less duplication of persons working in different industries at different times, would not represent the total number employed in all industries at any one time, and would give an undue weight to seasonal industries as compared with industries in continual operation.

In order to determine as nearly as possible the age distribution of the average number of wage earners for an industry, the per cent distribution by age of the wage earners for December 15, or the nearest representative day, has been calculated from the actual numbers reported for that date. The percentages thus obtained have been applied to the average number of wage earners for the year to determine the average numbers 16 years and over, and under 16, employed.

**Salaries and wages.**—Under these heads are given the total payments during the year for salaries and wages, respectively. The census Bureau has not undertaken to calculate the average annual earnings of either salaried employees or wage earners. Such averages would possess little real value, because they would be based on the earnings of employees of both sexes, of all ages, and of widely varying degrees of skill. Furthermore, so far as wage earners are concerned, it would be impossible to calcu-

late accurately even so simple an average as this, since the number of wage earners fluctuates from month to month in every industry, and in some cases to a very great extent. The Census Bureau's figures for wage earners, as already explained, are averages based on the number employed on the 15th of each month, and while representing the number according to the pay rolls to whom wages were paid on that date, no doubt represent a larger number than would be required to perform the work in any industry if all were continuously employed during the year.

**Prevailing hours of labor.**—No attempt was made to ascertain the number of wage earners working a given number of hours per week. The inquiry called merely for the prevailing practice followed in each establishment. Occasional variations in hours in an establishment from one part of the year to another were disregarded, and no attention was paid to the fact that a few wage earners might have hours differing from those of the majority. All the wage earners of each establishment are therefore counted in the class within which the establishment itself falls. In most establishments, however, practically all the wage earners work the same number of hours, so that the figures give a substantially correct representation of the hours of labor.

**Capital** (amount actually invested).—The instructions on the schedule for securing data relating to capital were as follows:

"The answer should show the total amount of capital, both owned and borrowed, on the last day of the business year reported. All the items of fixed and live capital may be taken at the amounts carried on the books. If land or buildings are rented, that fact should be stated and no value given. If a part of the land or buildings is owned, the remainder being rented, that fact should be so stated and only the value of the owned property given. Do not include securities and loans representing investments in other enterprises."

These instructions were identical with those employed at the censuses of 1914 and 1909. The data compiled in respect to capital, however, at both censuses, as well as at all preceding censuses of manufactures, have been so defective as to be of little value except as indicating general conditions. In fact, it has been repeatedly recommended by the census authorities that this inquiry be omitted from the schedule. While there are some establishments whose accounting systems are such that an accurate return for capital could be made, this is not true of the great majority, and the figures therefore do not show the actual amount of capital invested.

**Materials.**—The statistics as to cost of materials relate to the materials used during the year, which may be more or less than the materials purchased during the year. The term "materials" covers fuel, rent of power and heat, mill supplies, and containers, as well as materials which form a constituent part of the product.

**Rent and taxes.**—The taxes include certain Federal taxes and State, county, and local taxes. Under "Federal taxes" there are included the internal revenue tax on manufactures (tobacco, beverages, etc.), excise taxes when included in values reported for products, corporation capital stock tax, and corporation income tax, but not the income tax for individuals and partners.

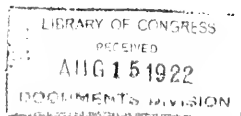
**Value of products.**—The amounts given under this heading represent the selling value or price at the factory of all products manufactured during the year, which may differ from the value of the products sold.

**Value added by manufacture.**—The value of products is not always a satisfactory measure of either the absolute or the relative importance of a given industry, because only a part of this value is actually created by the manufacturing processes carried on in the industry itself. Another part, and often by far the larger one, represents the value of the materials used. For many purposes, therefore, the best measure of the importance of an industry, from a manufacturing standpoint, is the value created by the manufacturing operations carried on within the industry. This value is calculated by deducting the cost of the materials used from the value of the products. The figure thus obtained is termed in the census reports "value added by manufacture."

**Cost of manufacture and profits.**—The census data do not show the entire cost of manufacture, and consequently can not be used for the calculation of profits. No account has been taken of depreciation or interest, rent of offices and buildings other than factory or works, insurance, ordinary repairs, advertising, and other sundry expenses.

**Primary horsepower.**—This item represents the total primary power equipment of the manufacturing establishments plus the amount of power, principally electric, rented from other concerns. It does not cover the power of electric motors taking their current from dynamos driven by primary power machines operated by the same establishment, because the inclusion of such power would obviously result in duplication. The figures for primary horsepower represent the rated capacity of the engines, motors, etc., and not the amount of power in actual daily use.

**Fuel.**—Statistics of the quantity of fuel used are shown only for anthracite and bituminous coal, coke, fuel oils, gasoline and other volatile oils, and gas, and represent the quantity used during the year. As only the principal kinds of fuel are shown, comparison as to the total cost of all fuel is impracticable.



# CAST-IRON PIPE.

## GENERAL STATISTICS.

**General character of the industry.** Establishments primarily engaged in the manufacture of cast-iron pipe were first segregated as an industry at the census of 1909. Prior thereto they were included with those for foundry and machine-shop products, which included iron foundries not specially provided for.

**Comparative summary.** Table 1 presents the general statistics for 1919, 1914, and 1909.

**Principal states, ranked by value of products.** Statistics are presented in Table 2 for the chief factors: Number of establishments; number of wage earners; value of products; and value added by manufacture, for all states for which the statistics can be reported.

**Persons engaged in the industry.**—The age classification of the average number of wage earners in Table 3 is an estimate obtained by the method described in the "Explanation of terms." Figures for states will be found in Table 12.

**Wage earners, by months.** The statistics for wage earners in Table 4 show the labor movement in accordance with the industrial conditions existing throughout the year.

**Prevailing hours of labor.**—Table 5 shows that of the total number of wage earners employed only 3.1 per cent were in establishments where the prevailing hours per week were 48 or fewer in 1909, and 1.1 per cent in 1914. In 1919 this ratio was 12.4 per cent. On the other hand, in 1909, 76 per cent were in the "60 hours

per week" group, and in 1914, 64 per cent, whereas in 1919 this group carried but 21.4 per cent.

**Size of establishments, by average number of wage earners.** Table 6 shows the industry to be one of relatively large units. Only six establishments with 180 wage earners are found in the groups employing 50 wage earners or less in 1919 and nine establishments with 179 wage earners in 1914.

**Size of establishments, by value of products.** The average value of products per establishment for all classes in 1919 was approximately \$850,000, as compared with \$450,000 in 1914 and \$700,000 in 1909. The increase from 1914 to 1919 was due primarily to enhanced values, and as a result, Table 7, being based upon value of products, shows heavy gains in the higher groups.

**Character of ownership.** The industry is almost entirely under corporate ownership. Of the 59 establishments, 56 are owned by corporations, and they reported 98.1 per cent of the value of all products.

**Number and horsepower of types of prime movers.** Table 8 gives the total horsepower reported for the industry. Of the total primary power, 60 per cent was purchased electric power in 1919, as compared with 31.7 per cent in 1914 and 14.9 in 1909.

**Fuel consumed.** Table 9 shows the consumption of fuel, by kinds and by states. The figures for gas include both manufactured and natural gas.

TABLE 1. COMPARATIVE SUMMARY 1919, 1914, AND 1909

|                               | 1919         | 1914         | 1909         | PER CENT OF INCREASE <sup>1</sup> |           |                            | 1919         | 1914         | 1909        | PER CENT OF INCREASE <sup>2</sup> |           |
|-------------------------------|--------------|--------------|--------------|-----------------------------------|-----------|----------------------------|--------------|--------------|-------------|-----------------------------------|-----------|
|                               |              |              |              | 1914-1909                         | 1919-1914 |                            |              |              |             | 1911-1909                         | 1914-1911 |
|                               |              |              |              |                                   |           |                            |              |              |             |                                   |           |
| Number of establishments      | 59           | 59           | 52           |                                   |           | Salaries and wages         | \$17,136,640 | \$11,127,851 | \$7,127,411 | 141.2                             | 99.4      |
| Persons engaged               | 13,777       | 13,200       | 12,884       | 3.7                               | 3.2       | Salaries                   | 2,131,212    | 1,055,399    | 921,855     | 131.6                             | 124.1     |
| Proprietors and farm members  | 4            | 8            | 7            |                                   |           | Wages                      | 14,005,428   | 10,072,452   | 6,205,556   | 133.3                             | 88.5      |
| Subsidiary employees          | 1,118        | 725          | 649          | 58.3                              | 11.7      | Paid for contract work     | 6,795        | 2,672        | 8,210       | 133.7                             | 6.6       |
| Wage earners (average number) | 12,625       | 12,557       | 12,228       | 0.5                               | 2.7       | Rent and taxes             | 1,267,255    | 1,677,226    | 129,909     | 66.8                              | 60.0      |
| Primary horsepower            | 28,741       | 25,894       | 18,757       | 11.1                              | 78.0      | Cost of materials          | 25,367,722   | 16,973,111   | 15,554,312  | 19.9                              | 16.0      |
| Capital                       | \$42,866,026 | \$26,981,070 | \$23,110,418 | 58.9                              | 16.7      | Value of products          | 93,275,161   | 26,653,366   | 23,153,723  | 4.1                               | 8.6       |
|                               |              |              |              |                                   |           | Value added by manufacture | 21,748,199   | 9,729,223    | 13,200,000  | 175.1                             | 63.6      |
|                               |              |              |              |                                   |           | Turnover                   |              |              |             |                                   |           |

<sup>1</sup> A minus sign (-) denotes decrease. Per cent omitted where base is less than 100.  
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<sup>2</sup> Value of product less cost of materials.

## MANUFACTURES.

TABLE 2.—PRINCIPAL STATES, RANKED BY VALUE OF PRODUCTS, 1919.

| STATE.                | Number of establishments. | WAGE EARNERS.   |                        |       | VALUE OF PRODUCTS.               |                        |       | VALUE ADDED BY MANUFACTURE.      |                        |       |
|-----------------------|---------------------------|-----------------|------------------------|-------|----------------------------------|------------------------|-------|----------------------------------|------------------------|-------|
|                       |                           | Average number. | Per cent distribution. | Rank. | Amount (expressed in thousands). | Per cent distribution. | Rank. | Amount (expressed in thousands). | Per cent distribution. | Rank. |
| United States.....    | 59                        | 12,625          | 100.0                  | ..... | \$50,235                         | 100.0                  | ..... | \$24,849                         | 100.0                  | ..... |
| Alabama.....          | 21                        | 5,285           | 41.9                   | 1     | 18,784                           | 37.4                   | 1     | 9,723                            | 37.5                   | 1     |
| New Jersey.....       | 8                         | 2,655           | 16.1                   | 2     | 9,690                            | 18.0                   | 2     | 4,293                            | 17.3                   | 3     |
| Pennsylvania.....     | 7                         | 1,705           | 13.5                   | 3     | 8,710                            | 17.3                   | 3     | 4,556                            | 18.4                   | 2     |
| New York.....         | 5                         | 312             | 2.5                    | 7     | 1,342                            | 2.7                    | 7     | 758                              | 3.0                    | 7     |
| All other states..... | 18                        | 3,286           | 26.0                   | ..... | 12,369                           | 24.6                   | ..... | 5,919                            | 23.8                   | ..... |

TABLE 3.—PERSONS ENGAGED IN THE INDUSTRY, 1919, 1914, AND 1909.

| CLASS.                                 | Census year. | Total. | Male.  | Female. | PER CENT OF TOTAL |         | CLASS.   | Census year. | Total. | Male.  | Female. | PER CENT OF TOTAL |         |
|--|--------------|--------|--------|---------|-------------------|---------|--|--------------|--------|--------|---------|-------------------|---------|
|  |              |        |        |         | Male.             | Female. |  |              |        |        |         | Male.             | Female. |
| All classes.....                       | 1919         | 13,777 | 13,545 | 232     | 98.3              | 1.7     | Clerks and other subordinate salaried employees..... | 1919         | 725    | 549    | 176     | 75.7              | 24.3    |
|  | 1914         | 13,290 | 13,190 | 100     | 99.2              | 0.8     |  | 1914         | 515    | 430    | 86      | 81.2              | 18.8    |
|  | 1909         | 12,884 | 12,832 | 52      | 99.6              | 0.4     |  | 1909         | 461    | 421    | 40      | 91.4              | 8.6     |
| Proprietors and officials.....         | 1919         | 427    | 423    | 4       | 99.1              | 0.9     | Wage earners (average number).....                   | 1919         | 12,625 | 12,573 | 52      | 99.6              | 0.4     |
|  | 1914         | 188    | 187    | 1       | 98.5              | 0.5     |  | 1914         | 12,557 | 12,511 | 46      | 99.9              | 0.1     |
|  | 1909         | 192    | 192    | .....   | .....             | .....   |  | 1909         | 12,228 | 12,216 | 12      | 99.9              | 0.1     |
| Proprietors and firm members.....      | 1919         | 4      | 4      | .....   | 100.0             | .....   | 16 years of age and over.....                        | 1919         | 12,588 | 12,536 | 52      | 99.6              | 0.4     |
|  | 1914         | 8      | 8      | .....   | 100.0             | .....   |  | 1914         | 12,507 | 12,494 | 13      | 99.9              | 0.1     |
|  | 1909         | 7      | 7      | .....   | 100.0             | .....   |  | 1909         | 12,153 | 12,143 | 10      | 99.9              | 0.1     |
| Salaried officers of corporations..... | 1919         | 108    | 105    | 3       | 97.2              | 2.8     | Under 16 years of age.....                           | 1919         | 37     | 35     | 2       | 100.0             | .....   |
|  | 1914         | 78     | 78     | .....   | 100.0             | .....   |  | 1914         | 50     | 50     | .....   | 100.0             | .....   |
|  | 1909         | 61     | 61     | .....   | 100.0             | .....   |  | 1909         | 73     | 73     | .....   | 100.0             | .....   |
| Superintendents and managers.....      | 1919         | 315    | 314    | 1       | 99.7              | 0.3     |  |              |        |        |         |                   |         |
|  | 1914         | 102    | 101    | 1       | 99.0              | 1.0     |  |              |        |        |         |                   |         |
|  | 1909         | 124    | 124    | .....   | 100.0             | .....   |  |              |        |        |         |                   |         |

TABLE 4.—WAGE EARNERS, BY MONTHS, FOR STATES, 1919.

[The month of maximum employment for each state is indicated by **bold-faced** figures and that of minimum employment by *italic* figures.]

| STATE.                | Average number employed during year. | NUMBER EMPLOYED ON 15TH DAY OF THE MONTH OR NEAREST REPRESENTATIVE DAY. |           |              |        |        |        |        |               |            |              |            | Per cent minimum is of maximum. |           |
|-----------------------|--------------------------------------|---|-----------|--------------|--------|--------|--------|--------|---------------|------------|--------------|------------|---------------------------------|-----------|
|                       |                                      | January.  | February. | March.       | April. | May.   | June.  | July.  | August.       | September. | October.     | November.  |                                 | December. |
| United States.....    | 12,625                               | 10,615  | 9,921     | 9,757        | 10,529 | 11,368 | 11,482 | 13,006 | 13,781        | 14,625     | 15,478       | 15,454     | <b>15,585</b>                   | 62.6      |
| 1919 Males.....       | 12,573                               | 10,569  | 9,883     | 9,718        | 10,491 | 11,227 | 11,434 | 12,960 | 13,723        | 14,570     | 15,407       | 15,385     | <b>15,506</b>                   | 62.7      |
| 1919 Females.....     | 52                                   | 46  | 41        | 39           | 44     | 41     | 48     | 46     | 58            | 55         | 71           | 69         | <b>79</b>                       | 44.3      |
| 1914.....             | 12,557                               | 11,816  | 12,572    | 13,193       | 12,701 | 12,613 | 12,849 | 13,221 | <b>13,427</b> | 13,211     | 12,555       | 11,396     | <i>11,190</i>                   | 83.3      |
| Alabama.....          | 5,285                                | 3,830   | 3,551     | 3,719        | 4,189  | 4,539  | 4,598  | 5,777  | 6,010         | 6,486      | 6,900        | 6,863      | <b>6,948</b>                    | 51.1      |
| New Jersey.....       | 2,655                                | 1,908   | 1,657     | <i>1,607</i> | 1,842  | 1,914  | 2,030  | 2,099  | 2,224         | 2,197      | 2,330        | 2,278      | <b>2,372</b>                    | 67.5      |
| New York.....         | 312                                  | 291   | 285       | 317          | 303    | 316    | 367    | 277    | 390           | 314        | 312          | <b>356</b> | 353                             | 73.3      |
| Pennsylvania.....     | 1,705                                | 1,620   | 1,459     | 1,454        | 1,492  | 1,705  | 1,692  | 1,720  | 1,799         | 1,861      | <b>1,950</b> | 1,923      | 1,809                           | 73.3      |
| All other states..... | 3,286                                | 2,957   | 2,961     | <i>2,667</i> | 2,703  | 2,794  | 2,901  | 3,163  | 3,472         | 3,757      | 3,986        | 4,034      | <i>4,043</i>                    | 65.8      |

# CAST-IRON PIPE.

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TABLE 5.—AVERAGE NUMBER OF WAGE EARNERS, BY PREVAILING HOURS OF LABOR PER WEEK, FOR STATES 1919 AND 1914

| IN ESTABLISHMENTS WHERE THE<br>PREVAILING HOURS OF LABOR<br>PER WEEK WERE— |                      |        |                     |                                  |       |                                  |       | IN ESTABLISHMENTS WHERE THE<br>PREVAILING HOURS OF LABOR<br>PER WEEK WERE— |                      |        |                     |                                  |     |                                  |       |
|--|----------------------|--------|---------------------|----------------------------------|-------|----------------------------------|-------|--|----------------------|--------|---------------------|----------------------------------|-----|----------------------------------|-------|
| STATE.   | Cen-<br>sus<br>year. | Total. | 48<br>and<br>under. | Be-<br>tween<br>48<br>and<br>54. | 54.   | Be-<br>tween<br>54<br>and<br>60. | 60.   | STATE.   | Cen-<br>sus<br>year. | Total. | 48<br>and<br>under. | Be-<br>tween<br>48<br>and<br>54. | 54. | Be-<br>tween<br>54<br>and<br>60. | 60.   |
| United States.....   | 1919                 | 12,625 | 11,564              | 440                              | 4,709 | 3,298                            | 2,701 | New York.....  | 1919                 | 312    | 64                  | 68                               | 148 | 43                               |       |
|  | 1914                 | 12,557 | 171                 |                                  | 1,363 | 3,926                            | 8,457 |  |                      |        |                     |                                  |     |                                  |       |
|  | 1909                 | 12,228 | 378                 |                                  | 1,425 | 1,131                            | 9,261 | Pennsylvania.....  | 1919                 | 1,767  |                     | 130                              | 673 | 516                              | 358   |
| Alabama.....   | 1919                 | 5,285  | 1,032               |                                  | 1,580 | 1,456                            | 1,217 |  | 1914                 | 1,835  |                     |                                  | 101 | 194                              | 1,540 |
|  | 1914                 | 5,696  | 113                 |                                  | 795   | 802                              | 1,986 |  |                      |        |                     |                                  |     |                                  |       |
| New Jersey.....  | 1919                 | 2,035  |                     | 242                              | 518   | 741                              | 594   |  |                      |        |                     |                                  |     |                                  |       |
|  | 1914                 | 3,421  |                     |                                  | 160   | 1,875                            | 1,416 |  |                      |        |                     |                                  |     |                                  |       |

<sup>1</sup> Includes 293 of group "H and under."

<sup>2</sup> Figure for 1914 not available.

TABLE 6.—SIZE OF ESTABLISHMENTS, BY AVERAGE NUMBER OF WAGE EARNERS, FOR STATES 1919 AND 1914

| STATE.        | Cen-<br>sus<br>year. | ESTABLISHMENTS EMPLOYING— |   |  |                  |   |                  |  |                  |   |                  |  |                  |  |                  |  |                  |                                |  |
|---------------|----------------------|---------------------------|---|--|------------------|---|------------------|--|------------------|---|------------------|--|------------------|--|------------------|--|------------------|--------------------------------|--|
|               |                      | TOTAL.                    |   | 1 to 5<br>wage<br>earners,<br>inclusive. |                  | 6 to 20<br>wage<br>earners,<br>inclusive. |                  | 21 to 50<br>wage<br>earners,<br>inclusive. |                  | 51 to 100<br>wage<br>earners,<br>inclusive. |                  | 101 to 250<br>wage<br>earners,<br>inclusive. |                  | 251 to 500<br>wage<br>earners,<br>inclusive. |                  | 501 to 1,000<br>wage<br>earners,<br>inclusive. |                  | Over 1,000<br>wage<br>earners. |  |
|               |                      | Estab-<br>lish-<br>ments. | Wage<br>earners<br>(average<br>number). | Estab-<br>lish-<br>ments.                | Wage<br>earners. | Estab-<br>lish-<br>ments.                 | Wage<br>earners. | Estab-<br>lish-<br>ments.                  | Wage<br>earners. | Estab-<br>lish-<br>ments.                   | Wage<br>earners. | Estab-<br>lish-<br>ments.                    | Wage<br>earners. | Estab-<br>lish-<br>ments.                    | Wage<br>earners. | Estab-<br>lish-<br>ments.                      | Wage<br>earners. |                                |  |
| United States | 1919                 | 59                        | 12,625                                  | .....                                    | .....            | .....                                     | .....            | .....                                      | .....            | .....                                       | .....            | .....  | .....            | .....  | .....            | .....  | .....            | .....                          |  |
|               | 1914                 | 59                        | 12,557                                  | .....                                    | .....            | .....                                     | .....            | .....                                      | .....            | .....                                       | .....            | .....  | .....            | .....  | .....            | .....  | .....            | .....                          |  |
| Alabama       | 1919                 | 21                        | 5,285                                   | .....                                    | .....            | .....                                     | .....            | .....                                      | .....            | .....                                       | .....            | .....  | .....            | .....  | .....            | .....  | .....            | .....                          |  |
|               | 1914                 | 21                        | 5,696                                   | .....                                    | .....            | .....                                     | .....            | .....                                      | .....            | .....                                       | .....            | .....  | .....            | .....  | .....            | .....  | .....            | .....                          |  |
| New Jersey    | 1919                 | 8                         | 2,035                                   | .....                                    | .....            | .....                                     | .....            | .....                                      | .....            | .....                                       | .....            | .....  | .....            | .....  | .....            | .....  | .....            | .....                          |  |
|               | 1914                 | 8                         | 3,421                                   | .....                                    | .....            | .....                                     | .....            | .....                                      | .....            | .....                                       | .....            | .....  | .....            | .....  | .....            | .....  | .....            | .....                          |  |
| New York      | 1919                 | 5                         | 312                                     | .....                                    | .....            | .....                                     | .....            | .....                                      | .....            | .....                                       | .....            | .....  | .....            | .....  | .....            | .....  | .....            | .....                          |  |
| Pennsylvania  | 1919                 | 7                         | 1,767                                   | .....                                    | .....            | .....                                     | .....            | .....                                      | .....            | .....                                       | .....            | .....  | .....            | .....  | .....            | .....  | .....            | .....                          |  |
|               | 1914                 | 7                         | 1,835                                   | .....                                    | .....            | .....                                     | .....            | .....                                      | .....            | .....                                       | .....            | .....  | .....            | .....  | .....            | .....  | .....            | .....                          |  |

<sup>1</sup> Figures for 1914 not available.

TABLE 7.—SIZE OF ESTABLISHMENTS, BY VALUE OF PRODUCTS, 1919, 1914, AND 1909.

| VALUE OF PRODUCT.             | NUMBER OF<br>ESTABLISHMENTS. |       |       | AVERAGE NUMBER OF<br>WAGE EARNERS. |        |        | VALUE OF PRODUCTS. |              |              | VALUE ADDED BY MANUFACTURE |             |              |
|-------------------------------|------------------------------|-------|-------|------------------------------------|--------|--------|--------------------|--------------|--------------|----------------------------|-------------|--------------|
|                               | 1919                         | 1914  | 1909  | 1919                               | 1914   | 1909   | 1919               | 1914         | 1909         | 1919                       | 1914        | 1909         |
|                               |                              |       |       |                                    |        |        |                    |              |              |                            |             |              |
| All classes.....              | 59                           | 59    | 72    | 12,625                             | 12,557 | 12,228 | \$9,245,101        | \$26,639,366 | \$29,153,721 | \$21,818,549               | \$9,729,221 | \$10,969,481 |
| Less than \$100,000.....      | 3                            | 14    | 11    | 66                                 | 559    | 1,001  | 180,261            | 1,829,149    | 1,549,922    | 91,101                     | 1,298,646   | 1,216,769    |
| \$100,000 to \$500,000.....   | 23                           | 27    | 28    | 1,955                              | 7,190  | 4,815  | 6,927,931          | 6,351,931    | 10,611,101   | 3,828,342                  | 5,981,793   | 3,920,565    |
| \$500,000 to \$1,000,000..... | 15                           | 10    | 13    | 2,815                              | 4,817  | 7,109  | 10,368,967         | 7,675,940    | 15,417,641   | 3,149,961                  | 3,645,775   | 6,102,017    |
| \$1,000,000 and over.....     | 18                           | 8     | 13    | 5,771                              | 4,817  | 7,109  | 52,758,839         | 11,802,315   | 17,971,697   | 15,417,641                 | 3,645,775   | 6,102,017    |
| PER CENT DISTRIBUTION         |                              |       |       |                                    |        |        |                    |              |              |                            |             |              |
| All classes.....              | 100.0                        | 100.0 | 100.0 | 100.0                              | 100.0  | 100.0  | 100.0              | 100.0        | 100.0        | 100.0                      | 100.0       | 100.0        |
| Less than \$100,000.....      | 5.1                          | 23.7  | 21.2  | 0.5                                | 4.4    | 2.5    | 0.4                | 6.8          | 5.3          | 4.1                        | 12.4        | 2.4          |
| \$100,000 to \$500,000.....   | 39.0                         | 45.7  | 38.8  | 15.6                               | 57.2   | 39.4   | 13.8               | 28.8         | 36.5         | 17.4                       | 58.4        | 38.2         |
| \$500,000 to \$1,000,000..... | 25.4                         | 17.0  | 18.1  | 22.3                               | 38.4   | 58.1   | 20.6               | 28.8         | 53.5         | 22.1                       | 37.5        | 59.4         |
| \$1,000,000 and over.....     | 30.5                         | 13.6  | 25.0  | 61.5                               | 38.4   | 58.1   | 65.2               | 44.3         | 61.6         | 62.1                       | 37.5        | 59.4         |

<sup>1</sup> Includes the groups "Less than \$5,000" and "\$5,000 to \$20,000."

## MANUFACTURES.

TABLE 8.—NUMBER AND HORSEPOWER OF TYPES OF PRIME MOVERS: 1919, 1914, AND 1909.

| POWER.                                     | NUMBER OF ENGINES OR MOTORS. |       |       | HORSEPOWER. |        |        |                       |       |       |
|--|------------------------------|-------|-------|-------------|--------|--------|-----------------------|-------|-------|
|  | 1919                         | 1914  | 1909  | Amount.     |        |        | Per cent distribution |       |       |
|  |                              |       |       | 1919        | 1914   | 1909   | 1919                  | 1914  | 1909  |
| Primary power, total . . . . .             | 1,040                        | 589   | 354   | 28,741      | 25,864 | 18,737 | 100.0                 | 100.0 | 100.0 |
| Owned.....                                 | 92                           | 115   | 162   | 11,501      | 17,666 | 15,950 | 40.0                  | 68.3  | 85.1  |
| Steam.....                                 | 90                           | 135   | 150   | 11,297      | 15,966 | 14,385 | 39.3                  | 61.7  | 76.8  |
| Engines.....                               | 86                           | (1)   | (1)   | 10,547      | (1)    | (1)    | 36.7                  | ..... | ..... |
| Turbines.....                              | 4                            | (1)   | (1)   | 750         | (1)    | (1)    | 2.6                   | ..... | ..... |
| Internal-combustion engines.....           | 1                            | 8     | 11    | 4           | 1,500  | 1,505  | (2)                   | 5.8   | 8.0   |
| Water wheels and turbines.....             | 1                            | 2     | 1     | 200         | 200    | 60     | 0.7                   | 0.8   | 0.3   |
| Rented Electric.....                       | 948                          | 444   | 192   | 17,240      | 8,498  | 2,787  | 60.0                  | 31.7  | 14.9  |
| Electric.....                              | 2,106                        | 1,626 | 1,189 | 35,493      | 28,548 | 19,334 | 100.0                 | 100.0 | 100.0 |
| Rented.....                                | 948                          | 444   | 192   | 17,240      | 8,498  | 2,787  | 48.6                  | 28.7  | 14.4  |
| Generated by establishments reporting..... | 1,158                        | 1,172 | 997   | 18,253      | 20,320 | 16,546 | 51.4                  | 71.3  | 85.6  |

(1) Not reported separately.

(2) Less than one-tenth of 1 per cent.

TABLE 9.—FUEL CONSUMED, BY STATES: 1919 AND 1914

| STATE.                | Cen-<br>sus<br>year. | COAL.                                  |  |                                  |  | Fuel oils<br>(barrels). | Gasoline and<br>other volatile<br>oils (barrel). | Gas<br>(1,000 cubic<br>feet). |
|-----------------------|----------------------|--|--|----------------------------------|--|-------------------------|--|-------------------------------|
|                       |                      | Anthracite<br>(tons, 2,240<br>pounds). | Bituminous<br>(tons, 2,000<br>pounds). | Coke<br>(tons, 2,000<br>pounds). |  |                         |  |                               |
| United States.....    | 1919                 | 27,374                                 | 96,387                                 | 256,781                          |  | 419                     | 658  | 5,386                         |
|                       | 1914                 | 45,693                                 | 39,991                                 | 248,305                          |  | 2,026                   | 0  | 163,833                       |
| Alabama.....          | 1919                 | 28,520                                 | 142,314                                |                                  |  |                         |  | 175                           |
|                       | 1914                 | 25,382                                 | 88,684                                 |                                  |  | 1,067                   | 0  | .....                         |
| New Jersey.....       | 1919                 | 16,751                                 | 21,067                                 | 32,275                           |  | 10                      | 50   | .....                         |
|                       | 1914                 | 30,694                                 | 17,553                                 | 49,146                           |  | 692                     | .....  | 151,913                       |
| New York.....         | 1919                 | 106                                    | 1,096                                  | 5,601                            |  | 8                       | 70   | .....                         |
| Pennsylvania.....     | 1919                 | 9,799                                  | 15,618                                 | 31,769                           |  | 51                      | 126  | 1,335                         |
|                       | 1914                 | 15,416                                 | 19,124                                 | 38,294                           |  | 250                     | 11   | 568                           |
| All other states..... | 1919                 | 718                                    | 30,086                                 | 56,512                           |  | 550                     | 412  | 3,826                         |
|                       | 1914                 | 153                                    | 40,646                                 | 75,181                           |  | 7                       | 11   | 11,912                        |

(1) Included in figures for fuel oils.



## SPECIAL STATISTICS.

Certain additional information concerning the quantity and value of products for the industry is collected by means of supplemental schedules, data for which are presented in Table 10.

**Products—comparative statistics, by states.** Table 10 presents detailed statistics of products for 1919 and 1914. The table shows distribution by states so far as the figures can be shown without disclosing individual operations. There is a considerable production of cast-iron pipe by establishments falling under other industry classifications, which has been included. With respect to 1914, this subsidiary production is included in the totals, but figures are not available to permit a distribution by states.

In 1919 there were 59 establishments in the classified industry, and 7 establishments in other industries reporting cast-iron pipe products. Of these, 18 establishments manufactured bell-and-spigot pipe, 15 flanged pipe, 3 culvert pipe, 22 gas and water pipe fittings, and 40 reported the manufacture of soil and plumbers' pipe and fittings.

The tonnage production of cast-iron pipe and fittings was 702,551 tons in 1919 as compared with 1,120,721 tons in 1914, a decrease of 37.3 per cent; but in value these products increased from \$25,979,192 in 1914 to \$48,544,584 in 1919, an increase of 86.7 per cent. The figures show an average ton value of \$69 for 1919 as compared with \$23.20 for 1914. Considering the different kinds of pipe products, there was a decrease of 54.7 per cent for the period 1914-1919 in tonnage of bell-and-spigot pipe, with an increase of 15.5 per cent in value; a decrease of 9.9 per cent in the tonnage of flanged pipe, with an increase of 143 per cent in value; a decrease of 48.5 per cent in culvert pipe, with an increase of 39.6 per cent in value; and a slight increase in tonnage of pipe fittings, namely, 4.8 per cent, with an increase of 242 per cent in value. Soil and plumbers' pipe and fittings increased 20.3 per cent in tonnage and 230 per cent in value. The figures show fairly uniform increases in unit values for the various classes, namely, bell-and-spigot pipe \$20 per

ton in 1914, to \$51.00 1919; flanged pipe, \$27 in 1914, \$72 in 1919; soil and plumbers' pipe and fittings, \$29 in 1914, and \$80 in 1919.

TABLE 10. PRODUCTS—COMPARATIVE STATISTICS, BY STATES, 1919 AND 1914.

|   | 1919                          |              | 1914                          |              |
|---|-------------------------------|--------------|-------------------------------|--------------|
|   | Ton-<br>nage,<br>1,000<br>lb. | Value,<br>\$ | Ton-<br>nage,<br>1,000<br>lb. | Value,<br>\$ |
| Total   |                               | \$31,902,741 |                               | \$28,124,607 |
| Cast-iron pipe (all types)  |                               | 29,227,401   |                               | 26,579,905   |
| Subtotal (all types) (18 establishments)                                    |                               | 1,667,612    |                               | 1,444,242    |
| Cast-iron pipe (all types)  | 742,544                       | 48,346,584   | 1,120,721                     | 25,979,192   |
| Bell-and-spigot pipe (all types)  | 447,882                       | 28,424,428   | 799,960                       | 19,806,481   |
| Ala.  | 147,761                       | 8,875,354    | 186,115                       | 4,469,284    |
| Nev. Ind.   | 8,064                         | 4,991,620    | 215,481                       | 4,684,266    |
| N. York   | 2,060                         | 2,514,452    | 876                           | 44,845       |
| Totals (14 States)  | 157,844                       | 15,382,827   | 141,472                       | 3,577,609    |
| Other States  | 14,248                        | 8,959,942    | 29,486                        | 5,875,720    |
| Flanged pipe  | 37,244                        | 1,257,063    | 528,965                       | 1,660,523    |
| Ala.  | 12,444                        | 6,424,443    | 170,414                       | 1,945,044    |
| Nev. Ind.   | 48,672                        | 6,414,419    | 116,444                       | 5,828,161    |
| Totals (2 States)   | 61,246                        | 12,838,862   | 286,858                       | 7,773,205    |
| Other States  | 11,892                        | 6,149,443    | 242,107                       | 4,855,984    |
| Culvert pipe  | 24,764                        | 1,714,296    | 527,289                       | 970,631      |
| Ala.  | 7,496                         | 34,444       | 8,951                         | 176,855      |
| Nev. Ind.   | 1,854                         | 20,028       | 8,918                         | 236,700      |
| Other States  | 15,414                        | 768,824      | 6,411                         | 140,766      |
| Gas and water pipe fittings   | 55,657                        | 344,062      | 111,011                       | 1,246,727    |
| Totals  | 441,240                       | 6,808,444    | 1,118,644                     | 12,482,803   |
| Ala.  | 17,944                        | 2,184,257    | 4,860                         | 264,365      |
| Nev. Ind.   | 6,992                         | 4,626,810    | 46,929                        | 583,076      |
| N. York   | 2,060                         | 2,514,452    | 876                           | 44,845       |
| Totals (3 States)   | 26,996                        | 9,325,519    | 52,665                        | 1,292,286    |
| Other States  | 11,754                        | 1,758,968    | 11,341                        | 797,958      |
| Soil and plumbers' pipe and fittings  | 2,004                         | 29,186,443   | 1,211,622                     | 6,473,708    |
| Ala.  | 122,827                       | 1,139,477    | 77,986                        | 2,164,044    |
| Nev. Ind.   | 44,444                        | 3,446,444    | 48,444                        | 4,444,271    |
| N. York   | 18,688                        | 1,48,978     | 10,896                        | 321,725      |
| Totals (3 States)   | 186,959                       | 4,674,899    | 137,326                       | 7,011,845    |
| Other States  | 11,754                        | 2,444,444    | 6,844                         | 866,934      |
| Other cast-iron pipe and fittings   | 16,401                        | 1,644,465    | 11,581                        | 681,747      |
| Other products  |                               | 1,774,747    |                               | 1,444,728    |
| * Include production of establishments under other industry classification. |                               |              |                               |              |
| Gas and water pipe and fittings   |                               |              | 28,631,666                    | \$796,730    |
| Flanged pipe  |                               |              | 21,609,606                    | \$42,844     |
| Culvert pipe  |                               |              | 3,299,606                     | 1,24,606     |
| Gas and water pipe and fittings   |                               |              | 4,424,606                     | 71,227       |
| Soil and plumbers' pipe and fittings  |                               |              | 26,087,606                    | 673,512      |
| Name of establishments in 1919.   |                               |              |                               |              |
| Flanged pipe  |                               |              | 18                            |              |
| Culvert pipe  |                               |              | 4                             |              |
| Gas and water pipe and fittings   |                               |              | 22                            |              |
| Soil and plumbers' pipe and fittings  |                               |              | 40                            |              |

## GENERAL TABLES.

Table 11 gives, for 1919, 1914, and 1909, a comparative summary, by states, for number of establishments, average number of wage earners, primary horsepower, wages, cost of materials, and value of

products. Table 12 presents, for 1919, the detailed statistics for the industry for such states as can be shown without disclosing the operations of individual establishments.

TABLE 11. COMPARATIVE SUMMARY, BY STATES, 1919, 1914, AND 1909.

| STATE.        | Cen-<br>sus<br>year. | Num-<br>ber of<br>estab-<br>lish-<br>ments | Wage<br>earners<br>(aver-<br>age<br>num-<br>ber). | Pri-<br>mary<br>horse-<br>power. | Wages.   | Cost of<br>mate-<br>rials. | Value<br>of prod-<br>ucts. | STATE.           | Cen-<br>sus<br>year. | Num-<br>ber of<br>estab-<br>lish-<br>ments | Wage<br>earners<br>(aver-<br>age<br>num-<br>ber). | Pri-<br>mary<br>horse-<br>power. | Wages. | Cost of<br>mate-<br>rials. | Value<br>of prod-<br>ucts. |
|---------------|----------------------|--|---|----------------------------------|----------|----------------------------|----------------------------|------------------|----------------------|--|---|----------------------------------|--------|----------------------------|----------------------------|
|               |                      |  |   |                                  |          |                            |                            |                  |                      |  |   |                                  |        |                            |                            |
|               |                      |  |   |                                  |          |                            |                            |                  |                      |  |   |                                  |        |                            |                            |
| United States | 1919                 | 59   | 12,625  | 28,741                           | \$14,705 | \$25,387                   | \$50,235                   | New York         | 1919                 | 5  | 312   | 767                              | \$373  | \$585                      | \$1,342                    |
|               | 1914                 | 59   | 12,557  | 28,861                           | 7,076    | 16,039                     | 26,659                     |                  | 1914                 | 3  | 213   | 293                              | 124    | 186                        | 370                        |
|               | 1909                 | 52   | 12,228  | 18,737                           | 6,302    | 18,881                     | 29,151                     |                  | 1909                 | 4  | 161   | 1,052                            | 268    | 687                        | 990                        |
| Alabama       | 1919                 | 21   | 5,285   | 10,754                           | 5,776    | 9,491                      | 18,784                     | Pennsylvania     | 1919                 | 7  | 1,767   | 3,892                            | 2,148  | 4,151                      | 8,710                      |
|               | 1914                 | 20   | 5,066   | 6,130                            | 2,651    | 3,907                      | 6,751                      |                  | 1914                 | 7  | 1,835   | 4,062                            | 1,029  | 3,265                      | 4,551                      |
|               | 1909                 | 14   | 2,878   | 4,632                            | 1,393    | 3,706                      | 6,097                      |                  | 1909                 | 5  | 1,435   | 2,531                            | 711    | 2,423                      | 3,531                      |
| New Jersey    | 1919                 | 8  | 2,065   | 3,711                            | 2,655    | 4,797                      | 9,039                      | All other states | 1919                 | 18   | 3,296   | 9,614                            | 3,751  | 6,450                      | 12,369                     |
|               | 1914                 | 9  | 3,121   | 4,785                            | 1,991    | 1,784                      | 7,353                      |                  | 1914                 | 20   | 3,392   | 10,391                           | 1,878  | 4,758                      | 7,631                      |
|               | 1909                 | 8  | 3,275   | 1,035                            | 1,951    | 5,355                      | 8,003                      |                  | 1909                 | 21   | 1,176   | 6,487                            | 2,179  | 6,713                      | 10,590                     |

TABLE 12. DETAILED STATEMENT FOR THE INDUSTRY, BY STATES, 1919.

| STATE.              | PERSONS ENGAGED IN THE INDUSTRY       |                         |  |  |                        |                               |                   |                                     |                                 |   | WAGE EARNERS DEC. 15, OR<br>NEAREST REPRESENTATIVE DAY. |                           |                 |   | EXPENSES.   |   |        |      |
|---------------------|---------------------------------------|-------------------------|--|--|------------------------|-------------------------------|-------------------|-------------------------------------|---------------------------------|---|---|---------------------------|-----------------|---|---|---|--------|------|
|                     | Number of<br>estab-<br>lish-<br>ments | Total                   | Pro-<br>pri-<br>etors,<br>super-<br>in-<br>tend-<br>ents,<br>and<br>man-<br>agers. | Clerks, etc.   |                        | Wage earners                  |                   | 16 and over.                        |                                 | Under<br>16.                                | Total.  | Salaries and wages.       |                 |   | Capital.  | Electric<br>horse-<br>power<br>gener-<br>ated<br>in<br>estab-<br>lish-<br>ments<br>re-<br>port-<br>ing. |        |      |
|                     |                                       |                         |  | Male   | Fe-<br>male            | Aver-<br>age<br>num-<br>ber.  | Maximum<br>month  | Minimum<br>month                    | Male                            | Fe-<br>male                                 |   | Officials.                | Clerks,<br>etc. |   |   |   |        |      |
|                     |                                       |                         |  |  |                        |                               |                   |                                     |                                 | Male  |   |                           | Female          | Male  |   |   | Female | Male |
| United States       | 59                                    | 13,777                  | 1  | 12   | 549                    | 176                           | 12,625            | De 15,585                           | Ma 9,753                        | 15,651                                      | 15,512  | 72                        | 37              | \$42,863,026  | \$1,385,596   | \$1,045,616   |        |      |
| Alabama             | 21                                    | 5,767                   | 1  | 117  | 265                    | 69                            | 5,285             | De 6,918                            | Ma 3,551                        | 6,948                                       | 6,914   | 34                        | 1               | 12,365,071  | 499,709   | 477,412   |        |      |
| New Jersey          | 8                                     | 2,218                   | 1  | 97   | 81                     | 32                            | 2,045             | De 2,572                            | Ma 1,992                        | 2,372                                       | 2,368   | 3                         | 1               | 8,637,290   | 238,403   | 171,945   |        |      |
| New York            | 5                                     | 330                     | 2  | 14   | 11                     | 8                             | 312               | De 256                              | Ma 261                          | 352   | 352   | 1                         | 1               | 1,115,231   | 73,062  | 28,063  |        |      |
| Pennsylvania        | 7                                     | 1,829                   | 1  | 55   | 87                     | 10                            | 1,707             | De 1,950                            | Ma 1,429                        | 1,931                                       | 1,896   | 18                        | 17              | 11,008,421  | 191,280   | 129,028   |        |      |
| All other states    | 18                                    | 3,553                   | 1  | 110  | 90                     | 57                            | 3,286             | De 1,947                            | Ma 1,012                        | 1,012                                       | 10  | 19                        | 9,707,013       | 385,292   | 218,498   |   |        |      |
| EXPENSES—continued. |                                       |                         |  |  |                        |                               |                   |                                     |                                 |   |   |                           |                 |   |   |   |        |      |
| STATE.              | Salaries and wages. Cont.             |                         | Rent and taxes.  |  | For materials.         |                               | Value of products |                                     | Value added by manufac-<br>ture |   | Primary horse-power.                                    |                           | Owned.          |   | Electric<br>horse-<br>power<br>gener-<br>ated<br>in<br>estab-<br>lish-<br>ments<br>re-<br>port-<br>ing. |   |        |      |
|                     | Wage<br>earner                        | For<br>contract<br>work | Rent of<br>factory   | Taxes,<br>Federal,<br>state,<br>county<br>and<br>local | Principal<br>materials | Fuel and<br>rent of<br>power. | Total             | Steam<br>engines<br>not in<br>bales | Steam<br>engines<br>in<br>bales | Inter-<br>nal<br>com-<br>bustion<br>engines | Water<br>power,<br>etc.                                 | Rent of<br>other<br>trac- | Owned.          | Electric<br>horse-<br>power<br>gener-<br>ated<br>in<br>estab-<br>lish-<br>ments<br>re-<br>port-<br>ing. | Electric<br>horse-<br>power<br>gener-<br>ated<br>in<br>estab-<br>lish-<br>ments<br>re-<br>port-<br>ing. |   |        |      |
| United States       | \$14,705,798                          | \$37,795                | \$20,782   | \$1,246,474  | \$22,744,779           | \$2,641,773                   | \$50,235,101      | \$24,848,549                        | 28,741                          | 10,547                                      | 750   | 4                         | 200             | 17,240  | 18,233  |   |        |      |
| Alabama             | 5,776,258                             | 5,413                   | 13,180   | 174,439  | 8,181,774              | 1,079,181                     | 18,784,905        | 9,323,348                           | 10,754                          | 5,745                                       | 1   | 1                         | 1               | 7,209   | 5,811   |   |        |      |
| New Jersey          | 2,655,151                             | 101,546                 | 4,230,465  | 477,688  | 9,029,796              | 4,292,043                     | 8,711             | 2,447                               | 750                             | 1   | 1   | 1                         | 1               | 517   | 4,637   |   |        |      |
| New York            | 52,929                                | 50,382                  | 531,321  | 53,110   | 1,412,422              | 737,791                       | 767               | 210                                 | 352                             | 1   | 1   | 1                         | 1               | 557   | 312   |   |        |      |
| Pennsylvania        | 11,008,421                            | 4,494                   | 406,601  | 837,182  | 19,810                 | 8,709,771                     | 1,555,759         | 1,892                               | 1,785                           | 1   | 1   | 1                         | 1               | 2,307   | 1,447   |   |        |      |
| All other states    | 9,705,013                             | 12,182                  | 2,968  | 2,1505   | 5,555,057              | 714,782                       | 12,568,807        | 5,918,988                           | 9,614                           | 2,760                                       | 1   | 1                         | 1               | 6,659   | 6,016   |   |        |      |

<sup>1</sup> All other states embrace: Ohio, West Virginia, Maryland, and Lynch in California, Georgia, Indiana, Massachusetts, North Carolina, Oregon, and Tennessee.



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